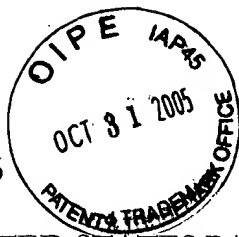


Docket No.: YHK-0066



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Confirmation No.: 3664

Eun Cheol LEE et al.

Group Art Unit: 2674

Serial No.: 09/879,170

Examiner: Xiao M. Wu

Filed: June 13, 2001

Customer No.: 34610

For: PLASMA DISPLAY AND DRIVING METHOD THEREOF

PRE-APPEAL BRIEF REQUEST FOR REVIEW

U.S. Patent and Trademark Office
Customer Service Window - AF
Randolph Building
401 Dulany Street
Alexandria, Virginia 22314

Sir:

Further to the Notice of Appeal filed herewith, Pre-Appeal Brief Request for Review of the Final Rejection issued on June 29, 2005 is respectfully requested in view of the following.

An October 18, 2005 Advisory Action indicates that the Amendment Under 37 C.F.R. § 1.116 filed on September 28, 2005 will be entered. Therefore, the pending claims are claims 1-14 and 18-23. Of these, claim 18 is allowed, and claims 5, 11 and 12 are indicated to recite allowable subject matter. The claims remaining rejected are claims 1-4, 6-10, 13, 14 and 19-23.

It is respectfully submitted that the Examiner's rejection of claims 1-4, 6-10, 13-14, and 19-24 over U.S. Patent No. 6,288,692 to Kanazawa et al. (hereinafter "Kanazawa") be reviewed in view of the clear deficiencies under 35 U.S.C. § 102(e), i.e., Kanazawa fails to disclose every claimed feature. The following are the text of the independent claims with reference labels, which are solely intended to be illustrative and not limit the scope of the claims.

Claim 1 recites a plasma display panel (see, e.g., Figure 6), comprising an address electrode (X5) included in each discharge cell (50) making a unit pixel of the plasma display panel, a plurality of second sustain electrodes (ZB1/Z1 and ZB1' and Z1') positioned at each periphery (upper and lower periphery) of the discharge cell (50) in a direction crossing the address electrode (X5) to receive a second sustaining pulse, and at least one of first sustain electrodes (Y1/YB1) positioned at the center of the discharge cell (50) in a direction crossing the address electrode to receive a first sustaining pulse applied alternately with respect to the second sustaining pulse, wherein the plurality of second sustain electrodes (ZB1/Z1 and ZB1' and Z1') is unique to each of the discharge cells (50) associated with the address electrode (X5).

Claim 13 recites a method of driving a plasma display panel (see, e.g., Figure 6) including a plurality of second sustain electrodes (ZB1/Z1 and ZB1' and Z1') positioned at each periphery (upper and lower periphery) of a discharge cell (50), an address electrode (X5) arranged in a direction crossing the second sustain electrodes (ZB1/Z1 and ZB1' and Z1'), and at least one of first sustain electrode (Y1/YB1) formed in parallel to the second sustain electrodes (ZB1/Z1 and ZB1' and Z1') between the second sustain electrodes, said method comprising the steps of applying a reset pulse to at least one electrode of the first sustain electrode and the second sustain electrodes so as to initialize the discharge cell, wherein the plurality of second sustain electrode is unique to each of the discharge cells associated with the address electrode, applying a scanning pulse to the first sustain electrode so as to select the discharge cells to be turned on, applying a data pulse synchronized with the scanning pulse to the address electrode, and alternately applying the sustaining pulse to the first and second sustain electrodes so as to discharge the discharge cells to be turned on.

Claim 14 recites a method of driving a plasma display panel (see, e.g., Figure 6) including a plurality of second sustain electrodes (ZB1/Z1 and ZB1' and Z1') positioned at each periphery (upper and lower periphery) of a discharge cell (50), an address electrode (X5) arranged in a direction crossing the second sustain electrodes (ZB1/Z1 and ZB1' and Z1'), and at least one of first sustain electrode (Y1/YB1) formed in parallel to the second sustain electrodes (ZB1/Z1 and ZB1' and Z1') between the second sustain electrodes, said method comprising the steps of, applying a reset pulse to at least one electrode of the first sustain electrode so as to initialize the discharge cell, applying a scanning pulse to the second sustain electrodes so as to select the discharge cells to be turned on, wherein the plurality of second sustain electrode is unique to each of the discharge cells associated with the address electrode, applying a data pulse synchronized with the scanning pulse to the address electrode, and alternately applying the sustaining pulse to the first and second sustain electrodes so as to discharge the discharge cells to be turned on.

Claim 19 recites a plasma display panel (see, e.g., Figure 16), comprising, an address electrode (X5) included in each discharge cell (50) making a unit pixel of the plasma display panel, a plurality of second sustain electrodes (Y1/YB1 and Y1'/YB1') positioned at each periphery (upper and lower periphery) of the discharge cell (50) in a direction crossing the address electrode (X5) to receive a second sustaining pulse, at least one of first sustain electrodes (ZB1/Z1 and ZB1' and Z1') positioned at the center of the discharge cell (50) in a direction crossing the address electrode (X5) to receive a first sustaining pulse applied alternately with respect to the second sustaining pulse, a scan/sustain driver (54) connected to the second sustain electrode (Y1/YB1 and Y1'/YB1') to apply the scanning pulse and the second sustaining pulse,

and a common sustaining driver (56) connected to the first sustain electrode (ZB1/Z1 and ZB1' and Z1') to apply a reset pulse and the first sustaining pulse.

Claim 20 recites a display panel (see, e.g., Figure 6), comprising, a plurality of first sustain electrodes (Y1/YB1) in a first direction, a plurality of second sustain electrodes (ZB1/Z1 and ZB1' and Z1') in the first direction, and a plurality of address electrodes (e.g., X5) in a second direction, which is different from the first direction such that the plurality of first and second sustain electrodes cross with the plurality of address electrodes, wherein there are at least more than two second sustain electrodes (ZB1/Z1 and ZB1' and Z1') than the first sustain electrode (Y1/YB1), wherein a plurality of discharge cells (e.g., 50) are associated with each of the plurality of address electrodes, and the plurality of second sustain electrodes (ZB1/Z1 and ZB1' and Z1') is unique to each of the plurality of address electrodes for each discharge cell (50).

It is technically incorrect to consider the odd cell 55 and the even cell 56 as sub-cells. Each of the odd and even cells 55, 66 are discharge cells that have only a single X electrode and share a Y electrode. The specific arguments for these features lacking in the Kanazawa reference is of record in the Amendment After Final filed on September 28, 2005 at page 10 and the first full paragraph of page 11.

Consequently, the rejection of independent claims 1, 13, 14, 19 and 20 is in error as the above noted features are not met by Kanazawa. Therefore, the features of dependent claims 2-4, 6-8, 9, 10, and 21-23 are also not met by Kanazawa because of the above reasons and their added features. In view of the above, withdrawal of the rejection over Kanazawa is respectfully requested.

CONCLUSION

In view of the foregoing, it is respectfully submitted that the application is in condition for allowance. Favorable consideration and prompt allowance are earnestly solicited. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, **Seth S. Kim** who is acting under 37 C.F.R. § 1.34, at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,
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